#### **Land Capability Classification**

The land capability classification system is used to show, in a general way, the suitability of soils for cropland. It is a three-category interpretative system. The two highest categories, class and subclass, give broad perspective of the suitability of map units for certain crops or pasture. These categories indicate the degree and kinds of limitations for these uses. The system evaluates soils for mechanized farming systems that produce the more common cultivated field crops, such as corn, small grains, cotton, hay, and field grown vegetables.

#### **Capability Class**

The highest category of the system is the capability class. The capability classes are groups of soils that have the same general suitability for the broad kinds of use common on farms and ranches. There are eight classes designated by Roman numerals I through VIII.

Classes I, II, III, and IV are suitable for mechanized production of common field crops if properly managed, and for production of pasture and woodland. The degree of limitation for production of cultivated crops increases progressively for class I to class IV. Limitations may affect production as well as the risk of permanent soil deterioration, as by erosion.

Classes V, VI, and VII are generally not suited to mechanized production of common field crops without special management, but are suitable for permanent cover such as grasses and trees. The severity of the soil limitations for crops increases from class V to class VII. Areas in class VIII are generally not suitable for crops, pasture, or wood products without management that is impractical. Class VIII areas may have potential for other uses, such as recreation or wildlife habitat.

#### Capability Subclass

The subclass identifies the dominant kind of limitation in the class. They are designated by adding a small letter, e, w, s, or c, to the class numeral, for example, IIe. The letter e shows that the main limitation is risk of erosion unless a close-growing plant cover is maintained: w shows that water in or on the soil interferes with plant growth or cultivation (in some soils the wetness can be partly corrected by artificial drainage); s shows that the soil is limited mainly because it is shallow, droughty, or stony; and c, used in only some parts of the United States, shows that the chief limitation is climate that is very cold or very dry.

There are no subclasses in class I because the soils of this class have few limitations. The soils in class V are subject to little or no erosion, but they have other limitations that restrict their use mainly to pasture, woodland, wildlife habitat, or recreation. Class V contains only the subclasses indicated by w, s, or c.

#### Capability Unit

The lowest category of the capability system is the capability unit. Capability units are soil groups within a subclass. The soils in a capability unit are enough alike to be suited to the same crops and pasture plants, to require similar management, and to have similar productivity. Units are designated by Arabic numerals, for example IIe-2. This category is not used in all soil surveys.

#### **Crop Yield Estimates**

The average yields per acre that can be expected of the principal crops under a high level of management are presented in the following table. In any given year, yields may be higher or lower than those indicated in the table because of variations in rainfall and other climatic factors. The yields are based mainly on the experience and records of farmers, conservationists, and extension agents. Available yield data from nearby counties and results of field trials and demonstrations are also considered.

The management needed to obtain the indicated yields of the various crops depends on the kind of soil and the crop. Management can include drainage, erosion control, and protection from flooding; the proper planting and seeding rates; suitable high-yielding crop varieties; appropriate and timely tillage; control of weeds, plant diseases, and harmful insects; favorable soil reaction and optimum levels of nitrogen, phosphorus, potassium, and trace elements for each crop; effective use of crop residue, barnyard manure, or green manure crops; and harvesting that insures the smallest possible loss.

The estimated yields reflect the productive capacity of each soil for each of the principal crops. Yields are likely to increase as new production technology is developed. The productivity of a given soil compared with that of other soils, however, is not likely to change. Absence of a yield indicates that the soil is not suited to the crop or the crop is generally not grown on the soil.

# Land Capability and Yields per Acre of Crops

Cumberland County And Part Of Oxford County, Maine

Yields are those that can be expected under a high level of management. They are for nonirrigated areas. Absence of a yield indicates that the soil is not suited to the crop or the crop generally is not grown on the soil.

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
AbE: Abram	7s			
Rock Outcrop	8s			
ACC: Abram	7s			
Rock Outcrop	8s			
Lyman	6s			
ACE: Abram	<b>7</b> s			
Lyman	<b>7</b> s			
Rock Outcrop	8s			
AdA: Adams	3s		16.00	
AdB: Adams	3s		16.00	
AdC: Adams	4e		16.00	
AdD: Adams	6e			
AED: Adams	7e			
AGC: Adams	3s			
Croghan	2w			
AHC: Adams	3s			
Hermon	6s			
AHD: Adams	7e			
Hermon	<b>7</b> s			
Au: Au Gres	4w			

M and	lap Symbol d Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
			Bu	Tons	Cwt
BeB: Becket		2e	1000.00	22.00	330.00
BeC: Becket		3e	1000.00	20.00	300.00
BeD: Becket		4e	700.00	18.00	
BgB: Belgrade		2e		24.00	270.00
BgC2: Belgrade		3e		20.00	240.00
BkB: Becket		6s			
BkC: Becket		6s			
BkD: Becket		6s			
Bo: Biddeford		5w			
Bp: Brayton		7s			
Peacham		5s			
BRB: Brayton		7s			
Peacham		5s			
BuB: Buxton		3w		22.00	
BuC2: Buxton		4e		20.00	
Ca: Charles		4w			
CaB: Canaan		3e		14.00	
CaC: Canaan		4e		12.00	
Cb:					

Map and S	Symbol Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
			Bu	Tons	Cwt
Cb: Charles		4w			
CcB: Colonel		3w		16.00	
CcC: Colonel		3e		14.00	
CdB: Colonel		6s			
CdC: Colonel		6s			
CeB: Canaan		6s			
CeC: Canaan		6s			
CeE: Canaan		7s			
CFB: Colonel		6s			
Brayton		7s			
CgB: Colton		3s		12.00	
CgC: Colton		4e			
CHC: Colton		3s			
Adams		3s			
Ck: Coastal Bea	ches	8w			
Cp: Cornish		3w		18.00	250.00
CrA: Croghan		2w		14.00	
CrB: Croghan		2w		14.00	
Cu:					

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
Cu: Cut And Fill Land				
DeA: Deerfield	2w		16.00	
DeB: Deerfield	2w		16.00	
DfB: Dixfield	2w	600.00	20.00	270.00
DfC: Dixfield	3e	550.00	18.00	240.00
DsB: Dixfield	6s			
DsC: Dixfield	6s			
Du: Dune Land	8e			
DUC: Dixfield	6s			
Colonel	6s			
DWC: Dixfield	3e			
Marlow	3e			
DXC: Dixfield	6s			
Marlow	6s			
DXD: Dixfield	7s			
Marlow	7s			
EmB: Elmwood	2w		22.00	450.00
Gp: Gravel Pits	8s			
HfB: Hartland	2e		28.00	650.00
HfC2:				

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
HfC2: Hartland	3e		22.00	
HfD2: Hartland	4e			
HgB: Hermon	2s	650.00	16.00	450.00
HgC: Hermon	3e	650.00	14.00	400.00
HgD: Hermon	4e	650.00		
HhB: Hermon	6s	650.00		
HhC: Hermon	6s	650.00		
HhD: Hermon	6s			
HkC: Hermon	7s			
HkE: Hermon	7s			
HIB: Hinckley	3s		12.00	
HIC: Hinckley	4e			
HID: Hinckley	6e			
HmD: Hermon	7s			
HnB: Hinckley	3s		12.00	
Suffield	2w		22.00	
HnC: Hinckley	4e			
Suffield	3e		20.00	
HnD:				

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
HnD: Hinckley	6e			
Suffield	4e		18.00	
HrB: Hollis	3e	450.00	14.00	
HrC: Hollis	4e	450.00	14.00	
HrD: Hollis	6e			
HsB: Hollis	6s			
HsC: Hollis	6s			
HsE: Hollis	7s		<del></del>	
HTD: Hermon	7s			
Monadnock	7s			
HTE: Hermon	7s			
Monadnock	7s			
HVC: Hermon	6s		<del></del>	
Skerry	6s			
Ls: Limerick	4w		20.00	
Saco	6w			
LtB: Lyman	6s			
Tunbridge	6s			
LtC: Lyman	6s			
Tunbridge	6s			
LtD:				

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
LtD: Lyman	7s			
Tunbridge	6s			
LUD: Lyman	<b>7</b> s			
Tunbridge	7s			
Becket	7s			
LUE: Lyman	<b>7</b> s			
Tunbridge	7s			
Becket	7s			
LWC: Lyman	6s			
Tunbridge	6s			
Monadnock	6s			
LWD: Lyman	7s			
Tunbridge	7s			
Monadnock	7s			
LWE: Lyman	7s			
Monadnock	7s			
Tunbridge	7s			
LXC: Lyman	6s			
Skerry	6s			
Tunbridge	6s			
LyB: Lyman	3e		14.00	
LyC: Lyman	4e		12.00	
LzB:				

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
LzB: Lyman	6s			
LzC: Lyman	6s			
LzE: Lyman	<b>7</b> s			
MaB: Marlow	2e		22.00	330.00
MaC: Marlow	3e	1000.00	20.00	300.00
Md: Made Land	8s			
MeC: Melrose	3e		22.00	500.00
Mk: Medomak	6w			
MkB: Merrimac	2s		18.00	450.00
MkC: Merrimac	3e		16.00	400.00
ML: Medomak	6w			
Wonsqueak	7w			
MnB: Monadnock	2e	700.00	18.00	
MnC: Monadnock	3e	700.00	16.00	
MvC: Monadnock	6s			
MvD: Monadnock	6s			
MWC: Hermon	3e			
Monadnock	3e			
Skerry	2e			

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
MXC: Monadnock	6s			
Skerry	6s			
Nb: Naumburg	4w			
NCB: Naumburg	4w			
Croghan	2w			
NvB: Nicholville	2e		20.00	270.00
On: Ondawa	1		26.00	550.00
PbB: Paxton	2e	1000.00	24.00	550.00
PbC: Paxton	3e	1000.00	22.00	500.00
PbD: Paxton	4e	1000.00	20.00	
PfB: Paxton	6s	750.00		
PfC: Paxton	6s	900.00		
PfD: Paxton	6s			
PkB: Peru	2e		20.00	500.00
PkC: Peru	3e	500.00	18.00	400.00
PIB: Peru	6s	500.00	<del></del>	<del></del>
PIC: Peru	6s			
Py: Podunk	2w		24.00	500.00
RbA:				

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
RbA: Ridgebury	4w		16.00	
RgA: Ridgebury	<b>7</b> s			
Ro: Rock Land	8s			
Lyman	7s			
Ru: Rumney	4w		20.00	
RZ: Rumney	4w			
Podunk	2w			
Sd: Saugatuck	4w			
Se: Searsport	5w			
SkB: Skerry	2e		18.00	
SkC: Skerry	3e		16.00	
Sn: Scantic	4w		16.00	
SnB: Skerry	6s			
SnC: Skerry	6s			
SnD: Skerry	6s			
So: Scarboro	5w			
SOC: Skerry	2e			
Becket	3e			
SOD: Skerry	4e			

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
SOD: Becket	6e			
Sp: Sebago	8w			
SRC: Skerry	6s			
Becket	6s			
SRD: Skerry	6s			
Becket	7s			
SSC: Skerry	2e			
Colonel	3w			
STC: Skerry	6s			
Colonel	6s			
STD: Skerry	6s			
Colonel	6s			
SuC2: Suffield	<b>4</b> e		20.00	
SuD2: Suffield	6e			
SuE2: Suffield	7e			
Sz: Swanton	4w		18.00	
Tm: Tidal Marsh	8w			
TyB: Tunbridge	2e	550.00	20.00	
Lyman	3e		14.00	
TyC: Tunbridge	3e	550.00	18.00	

Map Symbol and Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
		Bu	Tons	Cwt
TyC: Lyman	4e		12.00	
TyD: Tunbridge	4e	500.00	15.00	
Lyman	6e			
UaC: Urban Land	8s			
Adams	3s			
UhC: Urban Land	8s			
Hermon	3e			
Va: Vassalboro	8w			
Vb: Vassalboro	8w			
VW: Vassalboro	8w			
Wonsqueak	7w			
W: Water Bodies Greater				
Wa: Walpole	4w		18.00	
Wg: Whately	5w			
Wh: Whitman	5w			
Wk: Wonsqueak	7w			
WmB: Windsor	3s	<del></del>	14.00	<del></del>
WmC: Windsor	4e	<del></del>	12.00	<del></del>
WmD: Windsor	6e	<del></del>		<del></del>
WrB:				

	Map Symbol ad Soil Name	Land Capability	Apples	Corn Silage	Irish Potatoes
\\/-D.			Bu	Tons	Cwt
WrB: Woodbrid	ge	2e	500.00	24.00	450.00
WrC: Woodbrid	ge	3e	500.00	22.00	400.00
WS: Wonsque	ak	7w			
Searsport		5w			
WsB: Woodbrid	ge	6s	500.00		
WsC: Woodbrid	ge	6s	500.00		